TRM Service Specifications for COD

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Component Framework	Business Logic	Platform dependent		Yes	COBOL
Component Framework	Data Management	Reporting and Analysis		Yes	Total access query tool
Service Access and Delivery	Service Requirements	Authentication / Single Sign-on		Yes	Users required to be authenticated and SSO for all appropriate access project is underway.
Service Access and Delivery	Delivery Channels	Intranet		Yes	Customer service provided by internet and intranet connections
Service Interface and Integration	Interoperability	Data Types / Validation	XML Schema	No	
Service Access and Delivery	Delivery Channels	Internet		Yes	Users transmit data via internet connection to ED/FSA
Service Platform and Infrastructure	Delivery Servers	Application Servers		Yes	J2EE Application server
Service Interface and Integration	Interoperability	Data Format / Classification	eXtensible Markup Language (XML)	No	
Service Interface and Integration	Integration	Middleware	Message-Oriented Middleware (MOM): IBM WebSphere MQ	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Business Process Management	No	
Component Framework	Business Logic	Platform independent	Enterprise Java Beans (EJB)	No	
Component Framework	Business Logic	Platform independent	C, C++	No	
Component Framework	Data Interchange	Data Exchange	Electronic Business using XML (ebXML)	No	
Component Framework	Data Management	Reporting and Analysis	Online Analytical Processing (OLAP)	No	
Component Framework	Data Management	Database Connectivity	Open Database Connectivity (ODBC)	No	
Component Framework	Data Management	Database Connectivity	Java Database Connectivity (JDBC)	No	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP)	No	
Component Framework	Presentation / Interface	Content Rendering	Cascading Style Sheets (CSS)	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Web Content Accessibility	No	

TRM Service Specifications for COD (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Uniform Resource Locator (URL)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Web Service	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Electronic Mail (E-mail)	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Installation Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Usability Testing (508 Testing)	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Security and Access Control Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Load/Stress/Volume Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Functional Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Business Cycle Testing	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Defect Tracking	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Issue Management	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Version Management	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Requirements Management and Traceability	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Deployment Management	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Change Management	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Mainframe	No	
Service Platform and Infrastructure	Database / Storage	Storage	Storage Area Network (SAN)	No	
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)	No	

TRM Service Specifications for CPS

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Access and Delivery	Delivery Channels	Internet		Yes	The FAFSA on the WEB system (http://www.fafsa.ed.gov) consists of a group of WEB applications hosted at the VDC. Modules provide the following functionalities: The Internet is a worldwide system of computer networks in which users at any one computer can, if they have permission, get information from any other computer.
Service Platform and Infrastructure	Delivery Servers	Application Servers		Yes	J2EE
Service Access and Delivery	Access Channels	Other Electronic Channels		Yes	Email
Component Framework	Data Management	Database Connectivity	Open Database Connectivity (ODBC)	No	
Service Access and Delivery	Delivery Channels	Intranet		Yes	An Intranet is a private network that is contained within an enterprise. It may consist of many inter-linked local area networks and is used to share company information and resources among employees.
Service Access and Delivery	Delivery Channels	Extranet		Yes	An Extranet is a private network that uses the Internet protocol and the public telecommunication system to securely share part of a business's information or operations with suppliers, vendors, partners, customers, or other businesses.

TRM Service Specifications for CPS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)		Yes	Peer to Peer is a class of applications, that operate outside the DNS system and have significant or total autonomy from central servers, that take advantage of resources available on the Internet.
Service Access and Delivery	Service Requirements	Legislative / Compliance	Privacy: Platform for Privacy Preferences (P3P)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels		Yes	Terminals
Service Access and Delivery	Access Channels	Other Electronic Channels		Yes	EAI
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Switch	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Mainframe	No	
Service Platform and Infrastructure	Database / Storage	Database	Oracle	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Router	No	
Service Platform and Infrastructure	Delivery Servers	Web Servers	Internet Information Server	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE)	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows 2000	No	
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)	No	
Component Framework	Data Management	Database Connectivity	Java Database Connectivity (JDBC)	No	
Component Framework	Business Logic	Platform independent	Java Servlet (JSR 53)	No	
Component Framework	Data Management	Reporting and Analysis	Online Analytical Processing (OLAP)	No	
Component Framework	Data Interchange	Data Exchange	Electronic Business using XML (ebXML)	No	
Component Framework	Presentation / Interface	Content Rendering	eXtensible HTML (XHTML)	No	
Component Framework	Business Logic	Platform independent	JavaScript	No	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	

TRM Service Specifications for CPS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Component Framework	Presentation / Interface	Content Rendering	Dynamic HTML (DHTML)	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP)	No	
Component Framework	Security	Supporting Security Services	Secure Multipurpose Internet Mail Extensions (S/MIME)	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	
Component Framework	Presentation / Interface	Content Rendering	Cascading Style Sheets (CSS)	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	
Component Framework	Security	Supporting Security Services	Transport Layer Security (TLS)	No	
Service Access and Delivery	Service Requirements	Hosting	Internal (within Agency)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Web Content Accessibility	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Electronic Mail (E-mail)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Web Service	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	

TRM Service Specifications for CSB

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Service Requirements	Legislative / Compliance		Yes	The Direct Loan Servicing System (DLSS) and Debt Management Collection System (DMCS) Exhibits address current Service Access and Deliver, Service Framework and Service Platform tiers as applicable to the Technical Reference Model. However, this is not a 100% solution. Final Technical Reference Model framework for CSB will not be identified until after contract award.

TRM Service Specifications for DLSS

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)	No	
Service Platform and Infrastructure	Database / Storage	Database	SQL Server	No	
Service Platform and Infrastructure	Database / Storage	Database	Oracle	No	
Component Framework	Data Management	Reporting and Analysis	XML for Analysis	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows.Net	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows 2000	No	
Component Framework	Data Management	Database Connectivity	Java Database Connectivity (JDBC)	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Component Framework	Data Interchange	Data Exchange	XMI	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	

TRM Service Specifications for DMCS

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Internet Message Access Protocol / Post Office Protocol (IMAP / POP3)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Privacy: Liberty Alliance	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Multipurpose Internet Mail Extensions (MIME)	No	
Service Interface and Integration	Interface	Service Description / Interface	Application Program Interface (API) / Protocol	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Mail Transfer Protocol (SMTP)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Local Area Network (LAN)	Ethernet	No	
Service Access and Delivery	Service Transport	Service Transport	File Transfer Protocol (FTP)	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	

TRM Service Specifications for DS

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Interface and Integration	Interface	Service Discovery	Universal Description Discovery and Integration (UDDI)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Local Area Network (LAN)	Ethernet	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP)	No	
Service Access and Delivery	Service Transport	Service Transport	Internet Protocol (IP)	No	
Service Interface and Integration	Interface	Service Description / Interface	Application Program Interface (API) / Protocol	No	
Service Interface and Integration	Interface	Service Description / Interface	Web Services Description Language (WSDL)	No	
Service Interface and Integration	Integration	Middleware	Message-Oriented Middleware (MOM): IBM WebSphere MQ	No	

TRM Service Specifications for DS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Service Transport	Service Transport	File Transfer Protocol (FTP)	No	
Service Access and Delivery	Service Transport	Service Transport	Transport Control Protocol (TCP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Lightweight Directory Access Protocol (LDAP)	No	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol Secure (HTTPS)	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Transformation and Formatting	No	
Component Framework	Data Interchange	Data Exchange	Simple Object Access Protocol (SOAP)	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP)	No	
Service Interface and Integration	Integration	Middleware	Transaction Processing Monitor	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Electronic Mail (E-mail)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)	No	
Service Platform and Infrastructure	Delivery Servers	Web Servers	Internet Information Server	No	
Service Platform and Infrastructure	Database / Storage	Database	Oracle	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol (HTTP)	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE)	No	
Component Framework	Data Management	Database Connectivity	Java Database Connectivity (JDBC)	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	
Service Interface and Integration	Interoperability	Data Transformation	eXtensible Stylesheet Language Transform (XSLT)	No	
Service Interface and Integration	Interoperability	Data Format / Classification	eXtensible Markup Language (XML)	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	

TRM Service Specifications for EAI & ITA

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Transformation and Formatting	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Change Management	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Enterprise Server	No	
Service Platform and Infrastructure	Delivery Servers	Web Servers	Apache	No	
Service Interface and Integration	Interface	Service Description / Interface	Web Services Description Language (WSDL)	No	
Service Interface and Integration	Interface	Service Description / Interface	Application Program Interface (API) / Protocol	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Application Connectivity	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Web Service	No	

TRM Service Specifications for E-Campus Based

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE)	No	
Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)		Yes	A private data network that makes use of the public telecommunication infrastructure, maintaining privacy through the use of a tunneling protocol and security procedures.
Component Framework	Business Logic	Platform dependent	Visual Basic	No	

TRM Service Specifications for E-Campus Based (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Delivery Channels	Internet		Yes	The Internet is a worldwide system of computer networks in which users at any one computer can, if they have permission, get information from any other computer.
Component Framework	Data Management	Database Connectivity	Active Data Objects (ADO)	No	
Component Framework	Data Management	Database Connectivity	Open Database Connectivity (ODBC)	No	
Component Framework	Data Management	Database Connectivity	Java Database Connectivity (JDBC)	No	
Component Framework	Presentation / Interface	Content Rendering	Cascading Style Sheets (CSS)	No	
Component Framework	Business Logic	Platform independent	Java Servlet (JSR 53)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol (HTTP)	No	
Service Interface and Integration	Integration	Middleware	Database Access: PL/SQL	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP)	No	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	
Service Access and Delivery	Service Transport	Service Transport	File Transfer Protocol (FTP)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol Secure (HTTPS)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Domain Name System (DNS)	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Load/Stress/Volume Testing	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Mail Transfer Protocol (SMTP)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Uniform Resource Locator (URL)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Electronic Mail (E-mail)	No	

TRM Service Specifications for E-Campus Based (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Platform and Infrastructure	Database / Storage	Database	Oracle	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Security and Access Control Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Reliability Testing	No	
Service Platform and Infrastructure	Delivery Servers	Application Servers		Yes	In a three-tier environment, a separate computer (application server) performs the business logic, although some part may still be handled by the user's machine. After the Web exploded in the mid 1990s, application servers became Web based.
Service Platform and Infrastructure	Software Engineering	Test Management	Usability Testing (508 Testing)	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Change Management	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Functional Testing	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Issue Management	No	
Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	WebSphere Studio	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Defect Tracking	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Version Management	No	

TRM Service Specifications for FMS

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	

TRM Service Specifications for IPM

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)		Yes	Peer to Peer is a class of applications, that operate outside the DNS system and have significant or total autonomy from central servers, that take advantage of resources available on the Internet.
Service Access and Delivery	Service Transport	Supporting Network Services	Extended Simple Mail Transfer Protocol (ESMTP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Internet Message Access Protocol / Post Office Protocol (IMAP / POP3)	No	
Service Access and Delivery	Service Requirements	Authentication / Single Sign-on		Yes	Consolidate Multiple sign-ons now required to do business with Federal Student Aid
Service Access and Delivery	Delivery Channels	Internet		Yes	The Internet is a worldwide system of computer networks in which users at any one computer can, if they have permission, get information from any other computer.
Service Access and Delivery	Delivery Channels	Intranet		Yes	An Intranet is a private network that is contained within an enterprise. It may consist of many inter-linked local area networks and is used to share company information and resources among employees.

TRM Service Specifications for IPM (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Delivery Channels	Extranet		Yes	An Extranet is a private network that uses the Internet protocol and the public telecommunication system to securely share part of a business's information or operations with suppliers, vendors, partners, customers, or other businesses.
Component Framework	Data Interchange	Data Exchange	Electronic Business using XML (ebXML)	No	
Service Platform and Infrastructure	Delivery Servers	Application Servers		Yes	J2EE
Service Access and Delivery	Service Requirements	Legislative / Compliance	Privacy: Liberty Alliance	No	
Service Interface and Integration	Interface	Service Description / Interface	Web Services Description Language (WSDL)	No	
Service Interface and Integration	Interface	Service Description / Interface	Application Program Interface (API) / Protocol	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Switch	No	
Service Access and Delivery	Service Requirements	Hosting	Internal (within Agency)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Router	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Firewall	No	
Service Platform and Infrastructure	Delivery Servers	Web Servers	Internet Information Server	No	
Service Platform and Infrastructure	Database / Storage	Database	Oracle	No	
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE)	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows 2000	No	

TRM Service Specifications for IPM (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Component Framework	Data Management	Database Connectivity	Open Database Connectivity (ODBC)	No	
Component Framework	Data Management	Database Connectivity	Java Database Connectivity (JDBC)	No	
Component Framework	Data Management	Reporting and Analysis	Online Analytical Processing (OLAP)	No	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	
Component Framework	Business Logic	Platform independent	Java Servlet (JSR 53)	No	
Component Framework	Business Logic	Platform independent	JavaScript	No	
Component Framework	Presentation / Interface	Content Rendering	eXtensible HTML (XHTML)	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP)	No	
Component Framework	Presentation / Interface	Content Rendering	Dynamic HTML (DHTML)	No	
Component Framework	Presentation / Interface	Content Rendering	Cascading Style Sheets (CSS)	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Component Framework	Security	Supporting Security Services	Transport Layer Security (TLS)	No	
Component Framework	Security	Supporting Security Services	Secure Multipurpose Internet Mail Extensions (S/MIME)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	H.323	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	
Component Framework	Data Interchange	Data Exchange	Simple Object Access Protocol (SOAP)	No	
Service Interface and Integration	Interoperability	Data Types / Validation	XML Schema	No	
Service Access and Delivery	Service Transport	Supporting Network Services	T.120	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Web Service	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Mail Transfer Protocol (SMTP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Multipurpose Internet Mail Extensions (MIME)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol (HTTP)	No	
Service Access and Delivery	Service Transport	Service Transport	Internet Protocol (IP)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol Secure (HTTPS)	No	

TRM Service Specifications for IPM (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Service Transport	Service Transport	File Transfer Protocol (FTP)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Web Content Accessibility	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	

TRM Service Specifications for NSLDS

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows.Net	No	
Component Framework	Business Logic	Platform dependent		Yes	COBOL
Service Platform and Infrastructure	Delivery Servers	Application Servers		Yes	Mainframe
Service Interface and Integration	Integration	Enterprise Application Integration	Transformation and Formatting	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Application Connectivity	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Business Process Management	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Electronic Mail (E-mail)	No	
Component Framework	Data Management	Reporting and Analysis	Online Analytical Processing (OLAP)	No	
Service Interface and Integration	Interoperability	Data Format / Classification	eXtensible Markup Language (XML)	No	
Service Interface and Integration	Integration	Middleware	Message-Oriented Middleware (MOM): IBM WebSphere MQ	No	
Service Interface and Integration	Integration	Middleware	Transaction Processing Monitor	No	
Component Framework	Data Management	Database Connectivity	DB2 Connector	No	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Installation Testing	No	
Component Framework	Presentation / Interface	Content Rendering	Dynamic HTML (DHTML)	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	

TRM Service Specifications for NSLDS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Platform and Infrastructure	Software Engineering	Test Management	Security and Access Control Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Reliability Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Performance Profiling	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Load/Stress/Volume Testing	No	
Service Platform and Infrastructure	Delivery Servers	Web Servers	Internet Information Server	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Business Cycle Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Functional Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Configuration Testing	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Requirements Management and Traceability	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Issue Management	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Defect Tracking	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Change Management	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Network Interface Card (NIC)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Peripherals	Printer	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Redundant Array of Independent Disks (RAID)	No	
Service Access and Delivery	Service Requirements	Hosting	Internal (within Agency)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Random Access Memory (RAM)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Microprocessor	No	
Service Platform and Infrastructure	Database / Storage	Storage	Storage Area Network (SAN)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Hard Disk Drive	No	
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Uniform Resource Locator (URL)	No	

TRM Service Specifications for NSLDS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Facsimile (Fax)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	

TRM Service Specifications for OCTS

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Interface and Integration	Interface	Service Discovery	Universal Description Discovery and Integration (UDDI)	No	
Component Framework	Data Management	Database Connectivity	DB2 Connector	No	
Component Framework	Data Management	Database Connectivity	Open Database Connectivity (ODBC)	No	
Component Framework	Data Management	Database Connectivity	Active Data Objects .Net (ADO.Net)	No	
Component Framework	Data Management	Database Connectivity	Data Access Objects (DAO)	No	
Component Framework	Data Management	Database Connectivity	Object Linking and Embedding/Database (OLE/DB)	No	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	
Component Framework	Data Management	Database Connectivity	Active Data Objects (ADO)	No	
Component Framework	Data Management	Database Connectivity	Java Database Connectivity (JDBC)	No	
Component Framework	Business Logic	Platform dependent	Visual Basic	No	
Component Framework	Business Logic	Platform independent	JavaScript	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Active Server.Net (ASP.Net)	No	
Component Framework	Presentation / Interface	Content Rendering	Cascading Style Sheets (CSS)	No	
Component Framework	Presentation / Interface	Content Rendering	eXtensible HTML (XHTML)	No	
Component Framework	Presentation / Interface	Content Rendering	Dynamic HTML (DHTML)	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP)	No	

TRM Service Specifications for OCTS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Active Server Pages (ASP)	No	
Service Interface and Integration	Interface	Service Description / Interface	Application Program Interface (API) / Protocol	No	
Component Framework	Security	Supporting Security Services	Transport Layer Security (TLS)	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Web Content Accessibility	No	
Service Interface and Integration	Interoperability	Data Types / Validation	XML Schema	No	
Service Interface and Integration	Integration	Middleware	Database Access: ISQL/w	No	
Service Interface and Integration	Interoperability	Data Transformation	eXtensible Stylesheet Language Transform (XSLT)	No	
Service Interface and Integration	Interoperability	Data Format / Classification	Namespaces	No	
Service Interface and Integration	Interoperability	Data Format / Classification	eXtensible Markup Language (XML)	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Transformation and Formatting	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Application Connectivity	No	
Service Interface and Integration	Integration	Enterprise Application Integration	Business Process Management	No	
Service Interface and Integration	Integration	Middleware	ORB	No	
Service Interface and Integration	Integration	Middleware	Database Access: PL/SQL	No	
Service Interface and Integration	Integration	Middleware	Transaction Processing Monitor	No	
Service Interface and Integration	Integration	Middleware	Database Access: OPEN ANSI SQL/92	No	
Service Interface and Integration	Integration	Middleware	Database Access: NET8	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Internet Message Access Protocol / Post Office Protocol (IMAP / POP3)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Dynamic Host Configuration Protocol	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Mail Transfer Protocol (SMTP)	No	

TRM Service Specifications for OCTS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Service Requirements	Hosting	Internal (within Agency)	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Change Management	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	
Service Access and Delivery	Access Channels	Wireless / PDA	Blackberry	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Random Access Memory (RAM)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Uniform Resource Locator (URL)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Web Service	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Electronic Mail (E-mail)	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing	Receiver	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing	CODEC	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Firewall	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Video Conferencing	Bridge	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	T1/T3	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Integrated Services Digital Network (ISDN)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Gateway	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Transceivers	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Network Interface Card (NIC)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Router	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Switch	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Hub	No	

TRM Service Specifications for OCTS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Platform and Infrastructure	Hardware / Infrastructure	Peripherals	Scanner	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Microprocessor	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Peripherals	Printer	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Redundant Array of Independent Disks (RAID)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Enterprise Server	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Hard Disk Drive	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE)	No	
Service Platform and Infrastructure	Database / Storage	Database	SQL Server	No	
Service Platform and Infrastructure	Database / Storage	Storage	Storage Area Network (SAN)	No	
Service Platform and Infrastructure	Software Engineering	Modeling	Unified Modeling Language (UML)	No	
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)	No	
Service Platform and Infrastructure	Database / Storage	Database	Oracle	No	
Service Platform and Infrastructure	Software Engineering	Modeling	Case Management	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Installation Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Reliability Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Configuration Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Security and Access Control Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Performance Profiling	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Load/Stress/Volume Testing	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Version Management	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Usability Testing (508 Testing)	No	

TRM Service Specifications for OCTS (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Platform and Infrastructure	Software Engineering	Test Management	Functional Testing	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Deployment Management	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Task Management	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Issue Management	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows 2000	No	
Service Platform and Infrastructure	Delivery Servers	Media Servers	Real Audio	No	
Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	Visual Studio.NET	No	
Service Platform and Infrastructure	Delivery Servers	Web Servers	Apache	No	
Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	WebSphere Studio	No	
Service Platform and Infrastructure	Delivery Servers	Web Servers	Internet Information Server	No	

TRM Service Specifications for PIN SITE

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE)	No	
Service Interface and Integration	Interface	Service Description / Interface	Web Services Description Language (WSDL)	No	
Service Platform and Infrastructure	Delivery Servers	Application Servers		Yes	J2EE
Service Access and Delivery	Access Channels	Other Electronic Channels		Yes	EAI
Service Access and Delivery	Access Channels	Other Electronic Channels		Yes	Terminals
Component Framework	Data Management	Database Connectivity	Open Database Connectivity (ODBC)	No	
Component Framework	Business Logic	Platform independent	Java Servlet (JSR 53)	No	
Component Framework	Data Interchange	Data Exchange	Simple Object Access Protocol (SOAP)	No	
Component Framework	Business Logic	Platform independent	JavaScript	No	
Component Framework	Presentation / Interface	Content Rendering	Cascading Style Sheets (CSS)	No	

TRM Service Specifications for PIN SITE (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Component Framework	Presentation / Interface	Content Rendering	Dynamic HTML (DHTML)	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP)	No	
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	
Service Interface and Integration	Interface	Service Description / Interface	Application Program Interface (API) / Protocol	No	
Service Interface and Integration	Integration	Middleware	Message-Oriented Middleware (MOM): IBM WebSphere MQ	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol Secure (HTTPS)	No	
Service Access and Delivery	Service Transport	Service Transport	File Transfer Protocol (FTP)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol (HTTP)	No	
Service Access and Delivery	Service Transport	Service Transport	Internet Protocol (IP)	No	
Service Access and Delivery	Service Transport	Service Transport	Transport Control Protocol (TCP)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Privacy: Liberty Alliance	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Domain Name System (DNS)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Privacy: Platform for Privacy Preferences (P3P)	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Web Service	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Web Content Accessibility	No	
Service Access and Delivery	Delivery Channels	Internet		Yes	Provide access and security to external internet locations.
Service Access and Delivery	Delivery Channels	Intranet		Yes	Provide intranet access to FSA staff and supporting contractors inside via EDNET and VDC firewalls.
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Issue Management	No	

TRM Service Specifications for PIN SITE (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Electronic Mail (E-mail)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Firewall	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Hard Disk Drive	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Random Access Memory (RAM)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Servers / Computers	Mainframe	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Usability Testing (508 Testing)	No	
Service Platform and Infrastructure	Database / Storage	Database	Database 2 (DB2)	No	
Service Platform and Infrastructure	Database / Storage	Database	Oracle	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Load/Stress/Volume Testing	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Functional Testing	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Requirements Management and Traceability	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Deployment Management	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Change Management	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Task Management	No	
Service Platform and Infrastructure	Delivery Servers	Web Servers	Apache	No	
Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	WebSphere Studio	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Defect Tracking	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Version Management	No	

TRM Service Specifications for SAIG

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Component Framework	Business Logic	Platform independent		Yes	J2EE
Service Access and Delivery	Access Channels	Collaboration Communications		Yes	Call center and EAI
Service Access and Delivery	Service Transport	Supporting Network Services	Internet Message Access Protocol / Post Office Protocol (IMAP / POP3)	No	
Service Access and Delivery	Service Transport	Service Transport		Yes	MOM (Message-Oriented Middleware)
Service Interface and Integration	Interoperability	Data Format / Classification		Yes	ASCII TEXT FILES COMPRESSED FIXED FLAT COMPRESSED
Component Framework	Data Interchange	Data Exchange		Yes	ASCII Text
Component Framework	Security	Supporting Security Services		Yes	Encryption Software
Service Platform and Infrastructure	Database / Storage	Database		Yes	MS Access
Component Framework	Data Management	Reporting and Analysis		Yes	Custom
Service Interface and Integration	Interoperability	Data Format / Classification	eXtensible Markup Language (XML)	No	
Service Interface and Integration	Interface	Service Description / Interface	Application Program Interface (API) / Protocol	No	
Service Access and Delivery	Service Transport	Service Transport	File Transfer Protocol (FTP)	No	
Service Access and Delivery	Service Transport	Service Transport	Internet Protocol (IP)	No	
Service Access and Delivery	Service Transport	Service Transport	Transport Control Protocol (TCP)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol Secure (HTTPS)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol (HTTP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Mail Transfer Protocol (SMTP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Multipurpose Internet Mail Extensions (MIME)	No	
Component Framework	Data Interchange	Data Exchange	Electronic Business using XML (ebXML)	No	
Component Framework	Business Logic	Platform dependent	C-Sharp (C#)	No	
Component Framework	Presentation / Interface	Content Rendering	Cascading Style Sheets (CSS)	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP)	No	

TRM Service Specifications for SAIG (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Component Framework	Presentation / Interface	Static Display	Hyper Text Markup Language (HTML)	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	
Component Framework	Security	Certificates / Digital Signature	FIPS 186	No	
Service Access and Delivery	Access Channels	Collaboration Communications	Electronic Mail (E-mail)	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	

TRM Service Specifications for Student Portal

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE)	No	
Service Platform and Infrastructure	Delivery Servers	Application Servers		Yes	In a three-tier environment, a separate computer (application server) performs the business logic, although some part may still be handled by the user's machine. After the Web exploded in the mid 1990s, application servers became Web based.
Service Platform and Infrastructure	Delivery Servers	Web Servers	Apache	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	WebSphere Studio	No	
Service Platform and Infrastructure	Database / Storage	Storage	Storage Area Network (SAN)	No	
Service Platform and Infrastructure	Database / Storage	Database	Oracle	No	

TRM Service Specifications for VDC

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Delivery Channels	Internet		Yes	Provide access and security to external internet locations.
Service Access and Delivery	Delivery Channels	Peer to Peer (P2P)		Yes	Provide secure peer to peer connections to valid customers.
Service Access and Delivery	Delivery Channels	Virtual Private Network (VPN)		Yes	Provide secure VPN access to FSA trading partners.
Service Access and Delivery	Delivery Channels	Intranet		Yes	Provide intranet access to FSA staff and supporting contractors inside via EDNET and VDC firewalls.
Service Access and Delivery	Delivery Channels	Extranet		Yes	Provide limited access to supporting staff outside VDC firewall.
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows 2000	No	
Component Framework	Security	Certificates / Digital Signature	Secure Sockets Layer (SSL)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Extended Simple Mail Transfer Protocol (ESMTP)	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Dependent	Windows.Net	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Section 508	No	
Component Framework	Security	Certificates / Digital Signature	FIPS 186	No	
Component Framework	Security	Certificates / Digital Signature	Digital Certificate Authentication	No	
Service Access and Delivery	Service Transport	Service Transport	File Transfer Protocol (FTP)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol Secure (HTTPS)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol (HTTP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Lightweight Directory Access Protocol (LDAP)	No	
Service Access and Delivery	Service Transport	Service Transport	Transport Control Protocol (TCP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Network Management Protocol (SNMP)	No	

TRM Service Specifications for VDC (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Service Transport	Supporting Network Services	Simple Mail Transfer Protocol (SMTP)	No	
Service Access and Delivery	Service Transport	Supporting Network Services	T.120	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Security	No	
Service Access and Delivery	Service Requirements	Legislative / Compliance	Web Content Accessibility	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	System To System	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	

TRM Service Specifications for XML Framework

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Access and Delivery	Delivery Channels	Intranet		Yes	An Intranet is a private network that is contained within an enterprise. It may consist of many inter-linked local area networks and is used to share company information and resources among employees.
Component Framework	Data Management	Database Connectivity	Java Database Connectivity (JDBC)	No	
Service Platform and Infrastructure	Delivery Servers	Media Servers		Yes	The IBM HTTP Server (IHS) is the ITA standard for web servers at FSA. I would think most applications here would need to list this product in their OMB 300s. You might want to check to see if they want you to write other products into the spreadsheet. If they update the products on the spreadsheet and these aren't mandated from somewhere else, you might want to suggest that they add IHS to the form.

TRM Service Specifications for XML Framework (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Component Framework	Data Interchange	Data Exchange	Electronic Business using XML (ebXML)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Microprocessor	No	
Component Framework	Presentation / Interface	Dynamic / Server-Side Display	Java Server Pages (JSP)	No	
Service Access and Delivery	Service Transport	Service Transport	Hyper Text Transfer Protocol (HTTP)	No	
Service Access and Delivery	Service Transport	Service Transport	Internet Protocol (IP)	No	
Service Access and Delivery	Service Requirements	Hosting	External (ISP/ASP/FirstGov)	No	
Service Access and Delivery	Service Transport	Service Transport	Transport Control Protocol (TCP)	No	
Service Access and Delivery	Access Channels	Web Browser	Internet Explorer	No	
Service Access and Delivery	Access Channels	Other Electronic Channels	Uniform Resource Locator (URL)	No	
Service Access and Delivery	Access Channels	Web Browser	Netscape Communicator	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Local Area Network (LAN)	Ethernet	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Network Interface Card (NIC)	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Router	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Switch	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Network Devices / Standards	Hub	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Redundant Array of Independent Disks (RAID)	No	
Service Platform and Infrastructure	Supporting Platforms	Platform Independent	Java 2 Platform Enterprise Edition (J2EE)	No	
Service Platform and Infrastructure	Software Engineering	Integrated Development Environment	WebSphere Studio	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Hard Disk Drive	No	
Service Platform and Infrastructure	Hardware / Infrastructure	Embedded Technology Devices	Random Access Memory (RAM)	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Version Management	No	
Service Platform and Infrastructure	Database / Storage	Database	Oracle	No	

TRM Service Specifications for XML Framework (Continued)

Service Area	Service Category	Service Standard	Service Specification	New Specification	New Specification Description
Service Platform and Infrastructure	Software Engineering	Test Management	Business Cycle Testing	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Defect Tracking	No	
Service Platform and Infrastructure	Software Engineering	Test Management	Functional Testing	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Requirements Management and Traceability	No	
Service Platform and Infrastructure	Software Engineering	Software Configuration Management	Issue Management	No	